Object Handler - Settings

The settings option is used to specify option settings for the unload, load, find or scan function and parameter settings for the unload or load function.

Note:
* The notation "see (*)" in the tables below regarding name, date and time parameters refers to the section Name, Date and Time Specification.

To invoke the Unload/Load/Scan Settings screen

- On any of the unload, load or scan screens, enter the internal command SETTINGS (see also Commands for CUIs).
  Or, activate advanced-user mode, choose a function and press ENTER to start the processing procedure.
  Or, on the advanced-user screens, choose PF7/Setti.

Unless selected by default, to activate the options provided on the Unload/Load/Scan Settings screen described below, mark the corresponding input field with any single character.

The section below covers the following topics:

- Settings Screen Fields
- Set Additional Options
- Set Global Parameters

Settings Screen Fields

The Unload/Load/Scan Settings screen provides the following fields and PF keys:

Field	PF Key	Explanation
Transfer format		Only valid if "Use default options" (this is the default) has been selected. If selected, the data to be processed is written in Transfer format into/from the work file. See also Work File Format in the section Work Files. Unload function: The data to be unloaded is written in Transfer format into the work file. Note that if you want to change the setting of this field for a subsequent unload, you need to return to the Natural Object Handler Main Menu or enter the command GO UNLOAD END (see Commands for CUIs) and restart the unload function. Load and scan functions: The data to be loaded or scanned are expected to be in Transfer format.
Use PC File		Only applies if Entire Connection is installed. Writes data into an Entire Connection work file.
PC File		Only applies if Entire Connection is installed. The path and name of the Entire Connection work file.
Use default options		Default options are used (this is the default). See also SYSOBJH Profile and Set Additional Options below.

Field	PF Key	Explanation
Set additional options	PF4	Only valid if "Use default options" has been selected. Invokes the Options screen where you can modify the default settings and enter additional options for the processing sequence. For the options available, see Set Additional Options below.
Use Option Workplan		A Workplan of the type OPTION is used. See also Workplans.
Name (next to Use Option Workplan)		Only valid if Use Option Workplan has been selected. The name of a Workplan of the type OPTION to be used.
List Option Workplan	PF6	Only valid if Use Option Workplan has been selected. Displays the contents of the Workplan specified in the field Name next to Use Option Workplan.
Select Option Workplan	PF5	Only valid if Use Option Workplan has been selected. Displays a selection list of available Workplans of the type OPTION (see also List Workplan in the section Administration).
Do not use parameters		If selected (default), no parameters are set.
Use global parameters		Global parameters are used. See Set Global Parameters below.
Set global parameters	PF7	Only valid if "Use global parameters" has been selected. Invokes the global parameters screen. See Set Global Parameters and Parameter-Setting (Direct and PROCEDURE Workplan Syntax, Commands) for a description of keywords and valid values.
Use Parameter Workplan		A Workplan of the type PARAMETER is used. See also Workplans.
Name (next to Use Parameter Workplan)		Only valid if Use Parameter Workplan has been selected. The name of a Workplan of the type PARAMETER to be used.
List Parameter Workplan	PF9	Only valid if Use Parameter Workplan has been selected. Displays the contents of the Workplan specified in the field Name next to Use Parameter Workplan.
Select Parameter Workplan		Only valid if Use Parameter Workplan has been selected. Displays a selection list of available Workplans of the type PARAMETER. See also List Workplan in the section Administration.

Set Additional Options

The sections contained in the Options screen are described below. Note that not all of the sections may appear on the screen, because they depend on the function used, the settings defined and the products installed.

- Work File and Report Options
- XREF Options
- Version Check
- Transfer Options
- Replace Options
- Number to Process
- FDIC Settings
- FSEC Settings

For a description of keywords and valid values, see also Option-Setting in the section Direct and PROCEDURE Workplan Syntax, Commands.

Work File and Report Options

The options provided for work files and reports are described below:

Field	Explanation
Use PC File	Only applies if Entire Connection is installed. Writes data into an Entire Connection work file.
PC File	Only applies if Entire Connection is installed. The path and name of the Entire Connection work file.
Write report	Writes a report of the objects processed to a text member in the Workplan library. "Write report" is the default setting for object processing. To display the report, enter the internal command SHOW REPORT FILE (see also the section Commands for CUIs).
Start new Report	Only valid if "Write report" has been selected. Deletes the contents of the text member in the Workplan library before a new report is written. Otherwise, a new report is appended to the existing one.
Report text member	Only valid if "Write report" has been selected. The name of the text member stored in the Workplan library into which the report is written.
Select text member	Displays a list of all text members stored in the Workplan library. From this list, you can select a "Report text member".
Write restart information	Only applies to the load function. With this option you can resume load functions that terminated abnormally. The selection criteria, the options, the parameter settings and the objects already processed are written as restart information into a text member in the Workplan library (see "Restart text member" below). If the load function terminates before the work file has been processed completely, with the restart function you can continue from the point of termination. To invoke the restart function, enter the internal command GO RESTART (see also the section Commands for CUIs).
Restart text member	Only applies to the load function and if "Write restart information" has been selected. The name of the text member in the Workplan library into which the restart information is written. If you do not specify a name, the Object Handler generates a name and assigns it to the text member.
Select text member	Displays a list of all text members stored in the Workplan library. From this list, you can select a "Restart text member".

XREF Options

XREF options are only available when unloading or loading data in internal format, that is, if the field "Transfer format" has **not** been selected. To process XREF data, Predict must be installed.

The XREF options provided and the functions to which they apply are described below:

Field	Explanation	Function
Yes (unload/load XREF data)	Unloads cataloged objects and their cross-reference data, if any. Loads cataloged objects and their cross-reference data if cross-references exist in the work file.	Unload Load
No (ignore XREF data)	No XREF data is processed.	Unload Load
Force	Loads cataloged objects and their cross-reference data only if cross-references exist in the work file and if Predict entries exist for the objects in the FDIC system file.	Load
Doc	Loads cataloged objects only if Predict entries exist for the objects in the FDIC system file.	Load
Special	Loads cataloged objects and their cross-reference data (if any).	Load

Version Check

The version check option is only available when loading data in internal format, that is, if the field "Transfer format" has not been selected.

If "Version check" is marked, the Natural version under which the objects were cataloged and written into the work file is compared with the current Natural version. Objects cataloged under a Natural version higher than the current one will be rejected.

Transfer Options

Transfer options are only available when processing data in Transfer format, that is, if the field "Transfer format" has been selected.

The transfer options provided and the functions to which they apply are described below:

Option	Explanation	Function
Substitute line references	Only applies if source-code line numbers are used for statement references. If line numbers are used as references in the source code, the line numbers of referenced lines and the line number references are replaced with labels. The sources are not modified in the database.	Unload
Include Line Numbers	If you choose this option, the line numbers will be transferred. (By default, line numbers in Natural objects are not transferred.)	Unload
Incorporate free rules	If Predict is installed, Predict rules associated with a map are incorporated into the map source.	Unload
Use conversion table	Unload: Converts data into ASCII format by using the internal Natural conversion table (System table) or a conversion table defined by the user (User table). Load: Converts data into EBCDIC format by using the internal Natural conversion table (System table) or a conversion table defined by the user (User table). Note that this only applies if the data in the work file is in ASCII format or if a conversion program is specified (see User table).	Unload Load

Option	Explanation	Function
System table	Only valid if "Use conversion table" has been selected. Unload: Converts data into EBCDIC format by using the internal Natural conversion table. Load: Converts data into ASCII format by using the internal Natural conversion table.	Unload Load
User table	Only valid if "Use conversion table" has been selected. If the name of a conversion program has been entered in the field, data is converted into EBCDIC or ASCII format by using the conversion program defined. To specify an individual conversion program, the program must be located in the library SYSOBJH or one of its steplibs. See the example program OTNCONEA in the library SYSOBJH.	Unload Load
Translate to upper case	Translates any source code to be loaded into upper case.	Load
Data area format	Only applies to data areas. Specifies the format in which to unload or load data area sources. Possible values are: N Converts data areas into new internal data area format. O Converts data areas into old internal data area format. If one or more data area sources cannot be converted into old internal data area format, the Object Handler issues a corresponding message when unloading is complete. In addition, in the Status column of the unload report generated by the unload function, a corresponding remark appears next to the names of the data area sources affected. * Does not convert data areas. This is the default. For further details, see Data Area Editor in the Natural Editors documentation.	Unload Load

Replace Options

The replace options described below only apply to the load function:

Do not replace	Does not replace any objects. This is the default.
Replace all	Replaces all objects.
Replace obsolete	Replaces objects with a date older than the date of the objects in the load file.
Replace except newer	Replaces all objects except those with a date newer than the date of the objects in the load file.

Number to Process

Number to process only applies to the load and scan functions.

In the field "Number to process", enter a value with a maximum of 5 digits.
If a value greater than 0 is specified, the load or scan function stops after the specified number of objects has been processed.

Note:
If a cataloged Natural object is processed directly after the source object of the same name, they are considered one object.

FDIC Settings

FDIC settings are used to specify the Predict file (FDIC) to be used for processing XREF data (only applies if Predict is installed) or load DDMs:

DBID	The database ID (DBID) where the FDIC file is located.
FNR	The file number (FNR) where the FDIC file is located.
Password	Optional. The Adabas password of the Adabas file where the FDIC file is located.
Cipher	Optional. The cipher code of the Adabas file where the FDIC file is located.

FSEC Settings

FSEC settings only apply if Natural Security is installed.

FSEC settings are used to specify the Natural Security data file (FSEC) to be used for security checks:

DBID	The database ID (DBID) where the FSEC file is located.
FNR	The file number (FNR) where the FSEC file is located.
Password	Optional. The Adabas password of the Adabas file where the FSEC file is located.
Cipher	Optional. The cipher code of the Adabas file where the FSEC file is located.

Set Global Parameters

Not applicable to the scan function.

Global parameters are used to change parameter settings for the objects to be processed with the load or unload function, and to change the target environment for the load function.

For valid parameter settings, see also Parameter-Setting in the section Direct and PROCEDURE Workplan Syntax, Commands.

If global parameters are specified during the unload function, the parameter settings affect the objects before they are written into the work file. If they are specified during the load function, the parameter settings affect the objects before they are written to the target environment.

The fields on the Parameters screen are described below. The values that can be specified to change parameter settings, are entered in the fields Check Value and New Value. Check Value and New Value do not apply to the field "Error number difference" and the fields in the section "System files for load".

If no value has been entered in Check Value, the value entered in New Value affects all objects to which the specific parameter setting applies. If a value has been entered in Check Value, the value entered in New Value only affects objects to which the specific parameter setting and the value entered in Check Value apply. If a Check Value or New Value is not relevant to the type of object to be processed, any value entered in either field will be ignored. For example: Natural system error messages have no library name. Therefore, when processing Natural system error messages, a value entered in Check Value or New Value for the Library field will be ignored.
See also Rules for New Values below.

The following data can be specified for the load and the unload functions:

Field	**Explanation**
Object name	Check Value: A single object name or a range of names: see (*) Name. New Value: A single object name or a range of names: see (*) Name. See also Rules for New Values below.
Library	Check Value: A single library name or a range of names: see (*) Name. New Value: A single library name or a range of names: see (*) Name. See also Rules for New Values below.
Date	Check Value: A single date or a range of dates: see (*) Date and (*) Time. New Value: A single date or a range of dates: see (*) Date and (*) Time. See also Rules for New Values below.
Time	Check Value: A time. New Value: A time.
User ID	Check Value: A single user ID or a range of user IDs: see (*) Name. New Value: A single user ID or a range of user IDs: see (*) Name. See also Rules for New Values below.

Field	Explanation
Terminal ID	Check Value: A single terminal ID or a range of terminal IDs: see (*) Name. New Value: A single terminal ID or a range of terminal IDs: see (*) Name. See also Rules for New Values below.
Lang. Codes	Only applies when processing Natural system error messages or user-defined messages. Check Value: Up to 8 language codes. New Value: Up to 8 language codes. If more than 1 language code is specified, Check Value must contain the same number of language codes. In this case, the language code in Check Value is replaced by the language code in the corresponding New Value.
Error number difference (+/-nnnn)	Only applies when processing Natural system error messages or user-defined messages. A 4-digit positive or negative value. It can only be specified if start and end values are entered as selection criteria (Error number from/to). Otherwise, it is not possible to check if the result is valid (valid range: 1 to 9999).
FDT DBID/FNR	Check Value: A valid DBID and/or FNR of Adabas FDTs. New Value: A valid DBID and/or FNR of Adabas FDTs.

The following data can be specified or Natural system files for the load function only in the "System files for load" section of the Parameters screen:

Field	Explanation
Load FNAT DBID/FNR Password Cipher	The database ID (DBID) and file number (FNR) of the target FNAT system file. This system file is used for all library objects whose library name starts with SYS, but not SYSTEM. Additionally, you can specify the Adabas password and cipher code.
Load FUSER DBID/FNR Password Cipher	The DBID and FNR of the target FUSER system file. This system file is used for all library objects whose library name does not start with SYS, and for the library SYSTEM. Additionally, you can specify the Adabas password and cipher code.
Select (FNAT/FUSER)	Invokes the Select System File window with a list of all system files available in your Natural environment: see System File Selection.
Load NCP DBID/FNR Password Cipher	The DBID and FNR of the target Adabas file into which the Natural command processor sources are to be loaded. Additionally, you can specify the Adabas password and cipher code.

Rules for New Values

The following applies to New Value for "Object name", Library, Date/Time, User ID, Terminal ID and Lang. Codes.

If New Value contains a range with an asterisk (*), such as ABC*, the number of characters before the asterisk (*) determines the number of characters to be replaced in Check Value. This is also valid if Check Value is shorter than the range specified in New Value (see the second example in Examples below).

Examples:

1. Object name is ABCDEFG and New Value is set to ZYX* the resulting object name is ZYXDEFG.
2. Object name is AB and New Value is set to ZYX* the resulting object name is ZYX.
3. Object date is 2002-03-26 and New Value is set to 2003* the resulting object date is 2003-03-26.

